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1888

Descriptive and Illustrated

CATALOGUE.

LEWIS & COWLES

Successors to

CATSKILL, N. Y., U. S. A.

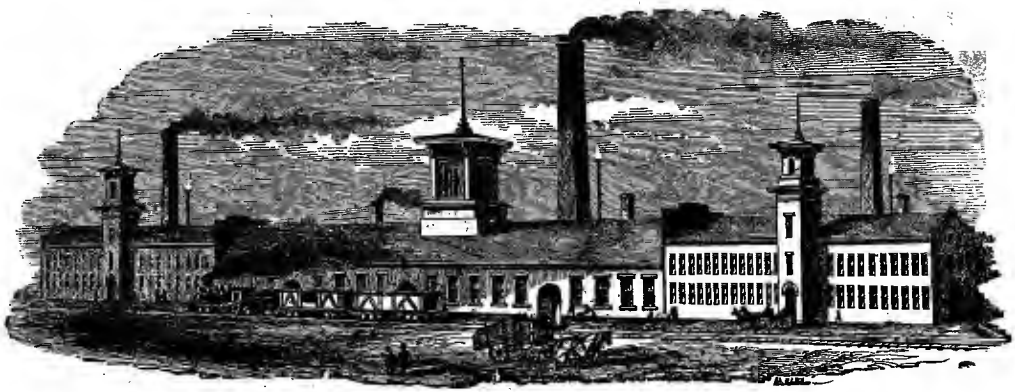
PATENTED

March 11, 1879; August 3, 1880; December 19, 1882.

FACTORY:

Waterbury, Conn.

Address all Correspondence to Catskill, N. Y.



Lewis Manufacturing Works.

FACTORY:

WATERBURY, CONN.

General Office and Salesroom at

CATSKILL, N. Y.

LEWIS'S

Descriptive and Illustrated

CATALOGUE

—OF—

FORCE PUMPS,

Fire Extinguishers

—AND—

AGRICULTURAL SYRINGES.

LEWIS & COWLES,

CATSKILL, N. Y.

CATSKILL:
"RECORDER" PRINT.
1888.

TO OUR PATRONS.

The proprietor of the Lewis Manufacturing Works would respectfully submit to you this Illustrated and Descriptive Catalogue, hoping that it may lead to business relations between us that shall be mutually beneficial.

The manufacturer wishes it distinctly understood that *all that is said or implied* in this Catalogue *is absolutely true.*

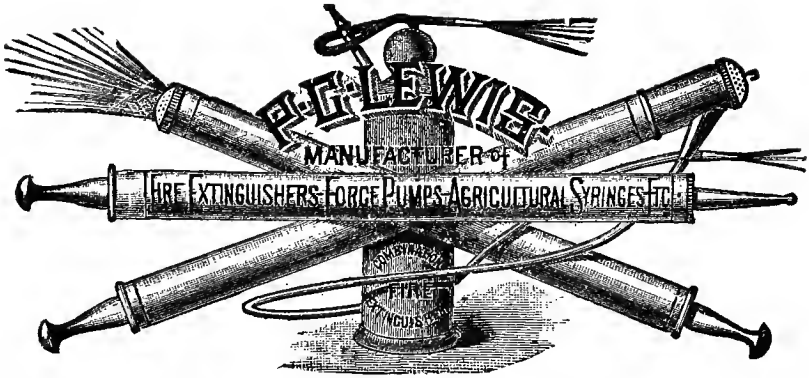
The generous recognition by the public of the great excellence and superior qualities of these goods is manifest in the tens of thousands now in use, and in the splendid testimonials contained in this Catalogue.

Their great power, simplicity, diversity of use, ease of operation, cheapness and durability place them pre-eminently above all others.

Their liability to derangement is very small, owing to the simplicity of the mechanism. Their parts are all interchangeable, and in case of accident any part can be supplied in duplicate at small cost, and warranted to fit.

Those wishing to buy a Pump for use simply, will find description and testimonials on pages 4, etc. Description of Exterminator on pages 16, etc. Those thinking of selling the goods or taking an agency will do well to read every word in this Catalogue, as they will thus become acquainted with the many arguments that can be used in their favor, as gleaned from the description of its uses and in testimonials. If our Price List and Discount Sheet is not inclosed with this Catalogue, *write for it at once.* We wish to secure good, live agents *everywhere*, and we are satisfied that we can convince you that there is *more money* to be made selling these goods than any other article now upon the market. Read terms to agents and see what our agents are doing. We have men of every profession and trade (almost without exception), who are canvassing for us, and all doing well and making money. Send for a sample machine and try selling them, *the effort will cost you nothing*, as, should you have no use for the Pump or Exterminator, you can sell it in less than *twenty minutes* in any village for *more than you paid.*

Those wishing agencies should write *immediately*, as territory is being taken up very fast. We often get letters from several parties from the same town, asking for the agency. Our motto is, *first come, first served.* We will give you the exclusive sale in all the territory you will thoroughly canvass, and for as long a time as you make a business of selling the goods.



The Above Cut Shows the Three Combinations.

Lewis's Combination Force Pump.

DESCRIPTION.

The Pump is made of heavy, mandrel-drawn brass tubing, is 32 inches long, and about $1\frac{7}{8}$ inches in diameter, weighing about $4\frac{1}{2}$ pounds. It is a combination of three very useful instruments or machines (see cut above)—a Force Pump, a Potato-Bug Exterminator or Agricultural Syringe, and a Veterinary Syringe—at least $12 worth of instruments or machines combined for $6.

PUMPS.

As a Force Pump, with its three feet of hose attached, it will throw a good-sized stream of water from fifty to sixty feet. For washing wagons, windows, floors, sides of houses, gardens, sprinkling croquet grounds, lawns, etc., etc., or as an *ever-ready* Fire-Extinguisher it is the best in use; and its cost, including Exterminator and Veterinary Syringe, *is one-half less than any other good pump* in market.

To parties who are troubled by *water or waste-pipes clogging up*, it is worth the price of the whole Combination, as you can clear water-pipes or logs in a *few minutes* that might require *several days' work* to find the obstruction. (See page 11). There is not a better Hand Pump made than ours.

OUR NEW SPRAY ATTACHMENT

is one of the finest attachments ever put upon a Pump. Being attached to the nozzle, a single movement of the thumb produces a spray or solid stream instantly. The attachment is made of brass, and *cannot* get out of order.

We also make an "Insect Spray Nozzle," which throws a very fine spray or mist. Parties having a large amount of spraying of trees, etc., should not fail to order this nozzle. It will be sent extra, with three feet of hose, for only 50c. additional. No extra charge if you do not want the regular nozzle for washing wagons and windows, putting out fires, etc., but parties having orchards to spray would advise you to buy both. Price of Pump complete, with the extra hose and nozzle, express paid, $6. This includes *both* sets of hose and nozzles.

AGRICULTURAL SYRINGE.

The pump part unscrews near the base, opposite where the hose is attached, and the perforated or syringenozzle is screwed on in its place. There is also an extra piston or plunger which is fitted with Lewis's Patent Expansion Valve, used in connection with the Exterminator, which holds the liquid at any point in the tube except on pressure of the handle. This extra handle and valve will be sent for only 25c. extra; with this you can convert the Agricultural Syringe into a Potato-Bug Exterminator.

For a description of this part of the Combination, see pages 16, etc., and testimonials. All there said applies directly to this, as they are exactly alike except that the nose or nozzle to this screws on and the other is soldered on.

THE VETERINARY SYRINGE.

This is something every stockman in the country should possess. With this Combination you have it always at hand, and if your horse or cow is sick and needs it, you do not have to run two or three miles for a Veterinary Syringe, as is often the case in the country. The Injector can be gauged from one gill to one quart at a filling.

In the make-up of the machine nothing but the most durable material is used. They are simple in construction and easily operated—a child ten years old can operate any of them. The Force Pump is put up in a strong paper box holding the whole Combination, with full directions on the inside of cover. Thus we furnish three complete machines, that would cost you anywhere else $10 or $12, for $6.

In order to introduce these goods rapidly, we will for a limited period send a sample Pump, express paid, to any express station in the United States or Canadas, upon receipt of $5.50 *for polished brass, or* $7 *for nickel-plated*, with the understanding that the party thus ordering will post or cause to be posted in a conspicuous place the large illustrated circular sent with the pump. Thus parties anywhere in the United States or Canadas can secure one of these Force Combination Pumps for less money than though they were retailed at their door, and this for the little trouble of posting a handsome circular conspicuously.

TO PATRONS IN CALIFORNIA AND FLORIDA.

The Pump is used largely in orange and lemon groves, and to wash out the buds of young pineapples when filled with sand. See testimonials from your State.

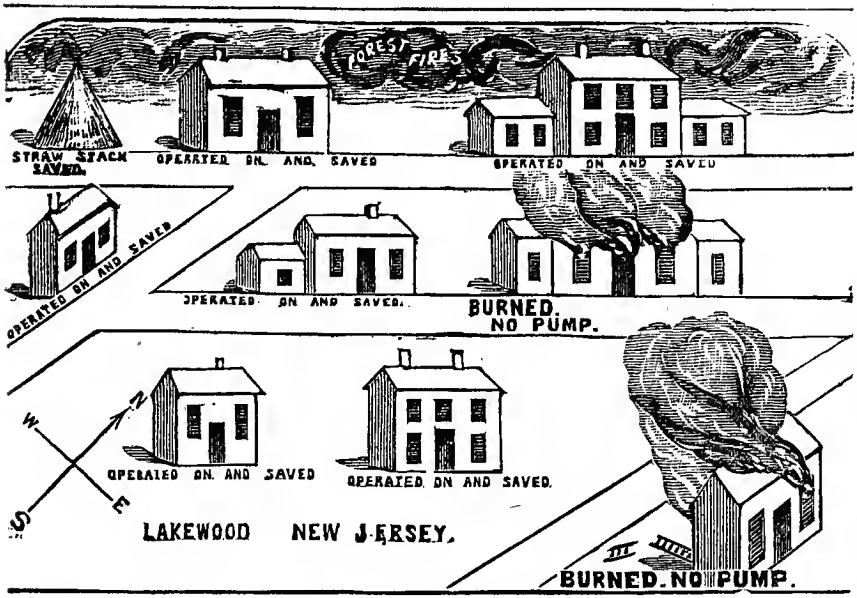
IN CASE OF FIRE.

A very large percentage of all fires are discovered at a time when but a small stream of water, *if at hand*, would extinguish them. That our Combination Force Pump is valuable as a Fire-Extinguisher, see testimonials 61, 85, 109 and 72, on pages 5 and 6; also 302 and 296, on pages 14 and 15.

CATALOGUES FREE TO ALL.

If you have any friends whom you think would like to receive our Catalogue, please give us their names. If you have used our goods and found them as represented, or if you find any new use that they can be put to, we should be glad to hear from you.

When through with this Catalogue, we should esteem it a favor if you would hand it to someone whom you think might be in need of some of our goods or would be likely to take an agency.



(No 85.)

$8000 to $12,000 Worth of Property Saved at Lakewood, N. J.

LAKEWOOD, N. J.

To P. C. LEWIS, Catskill, N. Y.: We, the undersigned, whose houses are shown in this sketch, and were saved by your Combination Force Pump, realizing the important service done in saving our houses from the fire fiend, tender you this sketch with appended testimonials as to the efficiency of your Pump as a Fire-Extinguisher, and believing it to be the best in use for its various uses. The fire came upon us suddenly, with a fierce wind that carried the burning embers in showers over this group of apparently doomed buildings, and in every case where Lewis's Combination Force Pump was used the fire was speedily extinguished. The others could have been saved had there been more pumps at hand. The buildings burned were seen to catch fire, but in order to extinguish it the buildings that were being operated on would have been burned. The building at the lower right-hand corner belonged to a New York party, and the house was closed; when it was discovered to be on fire no Pump could be spared, consequently the building was consumed. In another part of the town, a man, in attempting to save his barn, which was on fire, procured a ladder and with a pail of water attempted to ascend to the roof, but when part way up the ladder broke, and fell to the ground, and the building burned. It would have been but the work of a few minutes to extinguish the flames had he had a pump at hand. It is also a noticeable fact that the buildings nearest the fire were saved, while those remote were burned. We respectfully subscribe ourselves, very truly yours,

CHARLES MEGILL,
S. F. KEABLES,
JOHN C. ASHLEY,
W. H. CADY.

(No. 16.)

Can Cheerfully Recommend It.

CEDAR GROVE, Indiana.

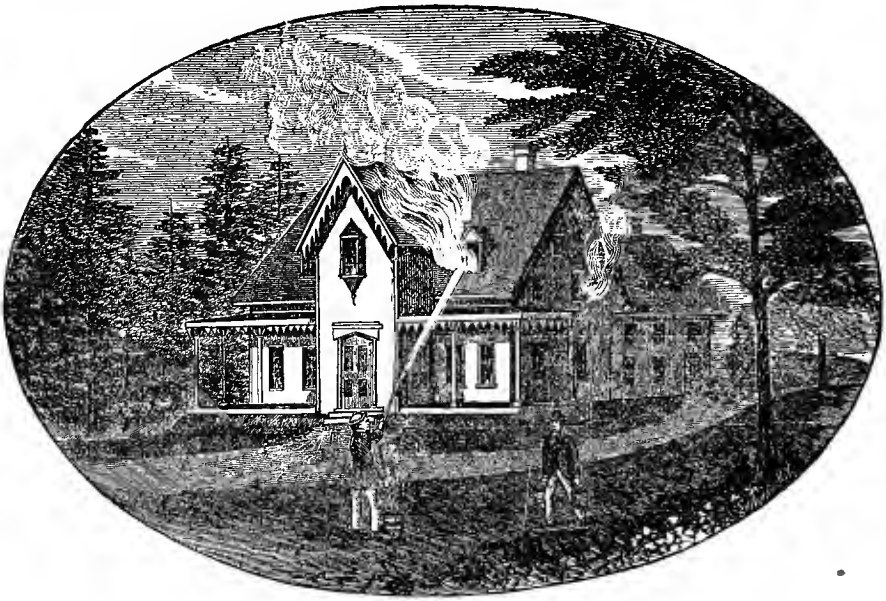
I have used your Pump in sprinkling potato vines and watering the garden, and find it everything it is recommended to be, especially in sprinkling potatoes with Paris Green. It is rapid and effective in its work. I can cheerfully recommend it to all having use for it in any way. I think it would be a good thing in case of fire. M. HUBBELL.

(No. 50.)

The "Boss" Thing.

ORWELL, Vt.

I think they are the "boss" thing. H. G. HIBBARD.



(No. 61.)

House Saved When the Roof was Partly Burned Off.

GREENVILLE, N. Y., July 16, 1880.

The Combination Force Pump your agent sold my neighbor, Henry Botsford, a few days since saved my house from being totally destroyed. The roof had been partly burned and all other efforts failed to put it out. One of the neighbors here, thinking of your Force Pump, borrowed it, which was quickly brought, and by the use of only one forty-gallon cask of water the fire was extinguished. I immediately bought a pump of your agent, R. T. Howard, and would not part with it on any account, as I consider it invaluable, and every farmer or house-owner should have one. EDWIN RIDER.

(No. 72.)

GARDINER, Maine, Jan. 13, 1881.

P. C. LEWIS, Esq., Catskill, N. Y. : Last Summer I bought of you a Combination Force Pump, for use in my garden, where it gave full satisfaction, till the close of the season and was then laid away. A few evenings since an alarm came that the house of my next-door neighbor was on fire. I went in and found the house filled with dense smoke, and the fire just bursting through the wainscoting and under good headway from an overheated chimney. A few minutes' work laid the wall open to the fire and sufficed to get it under control there, but it had got in between the timbers overhead where it was impossible to throw water by hand. I thought of the Force Pump, got it, turned the stream up through the opening and in less than two minutes had the fire extinguished, and this without the least damage or wetting the carpets or furniture of the parlor where the fire originated. It was a cold, Winter night, and the house was in the center of a group of fine residences which must have all been swept away had this house burnt before the fire department could have saved them. Under such circumstances, your Pump proves itself "worth its weight in gold." Truly yours, A. C. STILPHEN.

(No. 252.)

BELOIT, Wis.

P. C. LEWIS : I have been told there was a farmer living twenty-nine miles South of here who brought a load of apples into the city of Rockford, Ill., and there was not one apple to be found in his load that was wormy. This is a big story, but he said he bought one of your pumps and showered his trees with Paris Green and water, and for years before this his apples were wormy. I wish to get one of the pumps. ALFRED HULL.

(No. 69.)

SOUTH DEERFIELD, N. H.

Force Pump received. In my opinion it is the very best thing out. The Pump, for clearing water or drain-pipes and for washing windows and carriages, has proved very desirable. With the accompanying Exterminator, its adaptability for watering shrubbery, flowers and plants, or showering poisonous liquids for the destruction of the currant-worm, potato-bug and other insects, is self-evident. The Injector as a Veterinary Syringe can be used with ease, safety and neatness. In fact, its uses are innumerable. I would not be without the Combination for double its cost. H. M. HOITT.

(No. 109.)

Invaluable as a Fire-Extinguisher.

LAKEWOOD, N. J.

Mr. P. C. LEWIS, Catskill, N. Y.: Allow me to say in as few words as possible, what I think of your Combination Force Pump. As a fire-extinguisher it cannot be equaled by any portable hand-engine made; so light, so easy to operate, so reliable at all times, that it is one of the necessary fixtures of every household. With your Combination Force Pump and a pail of water, a fire can be reached and extinguished that might otherwise consume the building. I know whereof I speak. I have seen it thoroughly tested during the past season, when we experienced one of the most terrible fires that could be imagined, when volumes of cinders (live coals of fire) were taken up and carried one-fourth of a mile and deposited on the roofs of buildings, igniting them almost immediately; and I know that there was not a building consumed where they had one of your Combination Force Pumps to use. For washing windows, carriages, etc., it cannot be excelled. For showering fruit trees, currant bushes and grape vines, to destroy the insects that gather upon them, it becomes indispensable to fruit-growers. For wetting the lawn and the flower garden in time of drought, it keeps green the foliage, brightens the blossoms and preserves the freshness of our lawns, which otherwise would be parched and dried up during our scorching Summer months. I cannot say half enough in its praise, but what I do say is unsolicited. I say it because it is true and due the inventor.

JOHN C. ASHLEY.

(No. 154.)

DES MOINES, Iowa.

We have made use of your Force Pump, and it seems to be all that you claim for it.

HOMESTEAD.

(No. 127.)

Eighty-Acre Orchard Saved from Destruction by Canker-Worms with the Force Pump.

FRANKFORT, Ind.

Your Force Pump is the best I have ever used. I have an apple orchard of eighty acres, containing 3000 trees. Last Spring the whole of them were literally covered with canker-worms. On receipt of your Pump I got thirty pounds or so of Paris Green; I then put two hogsheads into my wagon, filled them with water and mixed a quart or so of Paris Green in each one. In three days' time your pump had sprinkled the whole number, and in three days more there was not a worm to be seen, except in the nests, in which they were dead by the quart. My trees are looking green and thrifty, and I have bid the canker-worm farewell. Respectfully, JOHN HARRYMAN.

(No. 223.)

BAY CITY, Mich.

I would like some good territory to sell your Pumps in. I bought one dozen of your agents, Adams & Clifford, and went out and sold eight of them in four hours.

W. S. EVANS.

(No. 13.)

Its Cheapness and Durability Make It the Best Pump I Know Of.

PUTNAM, Conn.

I am very much pleased with the Combination Pump which I purchased of you. The ease with which it operates, its adaption to so many uses, cheapness and durability, make it the best pump I know of, and what every agriculturist and horticulturist needs. If I had purchased it in season, I think I could have saved my apple orchards from the ravages of the canker-worm, using London Purple in water. The Potato-Bug Exterminator is just the thing for bugs and insects on vines, rose bushes, trees and shrubs.

Yours truly, J. E. GREENE.

(No. 193.)

ELLENBURGH DEPOT, N. Y.

P. C. LEWIS: Please send Pumps ordered by return express. I saved my house from fire yesterday with my Combination Pump. Three houses were burned beside my place, and there were eight barns burned. Now is the time to sell Pumps—several of these are sold already. GEO. S. BATCHELOR.

(No. 140.)

Extract from a Letter of C. Bower, Bakersfield, Cal., to D. N. Dilla, Agt., in Regard to the Lewis Combination Force Pump.

My only interest in the matter is that the farming interest might be served by the distribution of these instruments and instructions in their use; and for the purpose of aiding in the extermination of our insect pests, and keeping our fruit industries free from the scourge which is afflicting them in other portions of the State. I shall use every endeavor to introduce, or at least to circulate information concerning your instrument, (not in the interest of the instrument, or yourself, so you need consider yourself under no obligations whatever to me), because I think it so convenient, useful and cheap in proportion to its usefulness, that it would be apt to attract purchasers among the people generally, and the greater number of our people having such ready aid at hand the greater and more general will be the onslaught upon our fruit-destroying pests.

Yours truly, C. BOWER.

(No. 73.)

VAN METER, Ia., July 5, 1880.

I received your Combination and like it splendidly. I have given the Pump a fair trial and find that I can throw water from sixty to seventy feet. The main stream will go sixty feet and then it will divide and fall like rain seventy feet. I have a cask that holds a barrel of water and I can set it wherever I choose, and with your Pump I can water trees, shrubbery, etc., and protect my buildings from fire. I would not do without my Pump for $10. F. P. HAZEN.

(No. 253.)

OAK HALL, Va.

P. C. LEWIS: Pump received all right; am *very much pleased with it.* Please send enclosed order by express, *just as soon as possible.* E. P. BEADLES.

(No. 11.)

Purchasers are Well Satisfied.

HAGAMAN'S MILLS, July 13.

Have been waiting to hear how the men liked the Combination Pumps I sold them. They say they are well satisfied. I will try half a dozen more at the same price I got the first for. Find check inclosed. Send soon as possible. E. J. TITCOMB.

(No. 64.)

NORTON HILL, N. Y., July 14.

We, the undersigned, have in use one of your Combination Force Pumps and would not do without it for twice its cost. In case of fire it is unequaled and potato-bugs will leave the lots at its approach, while for washing wagons and windows or irrigating gardens one trial will satisfy the most skeptical of its efficiency.

LUMAN RAMSDELL,
GEO. MARSHALL,
ALONZO HUNT.

(No 267.)

HUDSON, Mass.

P. C. LEWIS: I would not take $10 for my Combination Pump and do without it.

Yours, etc., B. F. BRYANT.

(No. 29.)

We Think It Almost Indispensable.

NORTH PLAINS, Mich.

I received your Combination Pump all in good shape, and after using it for some time, we think it almost indispensable. It is just the thing for cleaning carriages and windows, and the sprinkler cannot be beaten for killing vermin, sprinkling plants, etc.

P. L. CHARLES.

(No. 126.)

CLARKSBURGH, West Va.

P. C. LEWIS: Your Combination Force Pump arrived in good order. I am very much pleased with it. Very respectfully, LEE HAMMOND.

(No. 111.)

WOODSTOCK, Ill.

P. C. LEWIS: I have used your Combination Pump for some time. I am highly pleased with it. H. P. WRIGHT.

(No. 34.)

All Like Your Pumps Best.

WELLFLEET, Mass., May 20.

Inclosed find cash for one-quarter dozen Combination Pumps, which please send immediately. The sample Pump was duly received and I hoped to have sent you a larger order before this, but I have been so badly poisoned by dogwood that I could hardly see, much less go about. The reason for my sending this small order is that I engaged the pumps before being poisoned and the parties are in a hurry for them. All whom I have shown the pump to think it very cheap and the best they have seen. Several persons have different kinds of pumps, but they cost more than yours and they are not as good. Your early attention will greatly oblige. VOLNEY P. JOHNSON.

(No. 97.)

GREELEY, Colo.

Mr. P. C. LEWIS: The Potato-Bug Exterminator I bought last season works so well that a man who has used it wants one of them. Inclosed find M. O. for $1.25, for which please send another one. Yours truly, O. H. GALLUP.

(No. 237.)

BRAIDENTOWN, Fla.

P. C. LEWIS: The Combination Force Pump received in good condition. Am much pleased with it. I think it will be just the thing in an orange grove, or in a garden.

Very respectfully, B. F. CARTER.

(No. 240.)

HILLSBORO', Md.

P. C. LEWIS, Catskill, N. Y.: I am pleased with the Combination; it is certainly a handy contrivance. S. C. HACKETT.

(No. 21.)

COLEBROOKDALE, N. Y.

SIR: The Combination Force Pump you shipped to me May 31st has been doing good service. So far I am pleased with it. J. L. BAUER.

(No. 88.

Perfectly Satisfied.

JOILET, Ill.

Have given your Combination Force Pump a fair trial and am perfectly satisfied with it. I have used it with success as a potato-bug exterminator. FRANK JEWETT.

(No. 251.)

HIGHSTOWN, N. J.

SIR: At a fire here last night at the fruit cannery, the corner of the main building caught on fire and was put out by one of your Force Pumps. We had no ladders and it would no doubt have burned but for your Pump. I have one of your Pumps myself.

Respectfully, etc., S. FRYER.

(No. 231.)

SOUTH MANCHESTER, Mass.

The Pump I ordered of you arrived to-day all right. Have been trying it, and find that it works to a charm. I am very much pleased with it, and also your promptness in sending it. Shall speak a good word for you and the *Pump* with pleasure.

CLINTON W. HOUSE.

(No. 78.)

BEATTY'S P. O., Westmoreland Co., Pa.

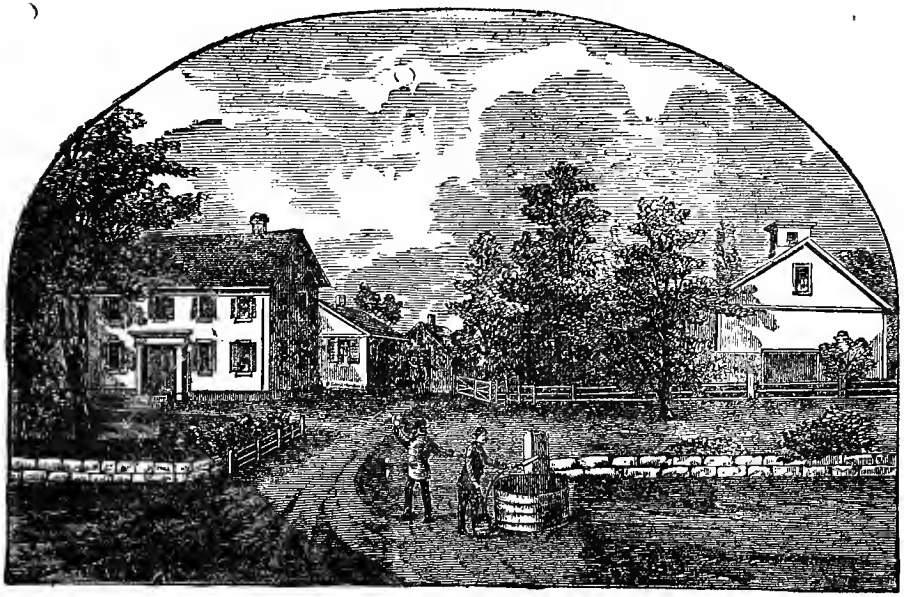
Mr. P. C. LEWIS: The Pump arrived safely, and I am very much pleased with it. I am quite convinced that it will give general satisfaction I am going to go at it in earnest to solicit orders, and as soon as possible shall send for at least a dozen.

Yours, very respectfully, F. L. NEWFIELD, M. D

(No. 105.)

NEWPORT, N. H.

The Pump is a necessity with me. I use it in my garden, in my door-yard, on my strawberries, to wash my carriages, to clear my water-pipes and as a syringe to wash windows and plants, sprinkle floors, flower-beds, etc. I find use for it every day, and would not part with it for $10. JOHN A. MARSHALL.



Clearing an Obstructed Water-Pipe.

(No. 144.)

Would Not be Without It.

NORTH BROADALBIN, Fulton Co., N. Y.

P. C. LEWIS: In your Circular that I received I saw a testimonial from your agent at Hagaman's Mills. As the distance is short, I got one of him. My water-pipe is *sixty rods long, fifteen feet fall.* We forced the water through that distance, a full stream (the pipe full). I am highly pleased with it; would not be without it if I could not get another, for any price. Thanks for prompt answer to my letter.

GEO. H. HILLMAN.

(No. 206.)

WEST MILTON, Saratoga Co.

Mr. P. C. LEWIS: The first day I went out I cleaned out a pipe that carried the water from a spring to the West Milton Hotel, a distance of about three-fourths of a mile, and the pipe was of various sizes, from one-half to one inch; thereupon I sold a Combination immediately.

CHAS. A. CLUTE.

(No. 20.)

Water-Pipes Cleaned of Sediment in Less Than Ten Minutes.

STOCKBRIDGE, Mass.

When my Pump came the pipe conducting water to my barn was obstructed so as to render it useless. I applied the Force Pump and in less than ten minutes had a full stream of water running to my barn, having cleared the pipe of the sediment which had collected. I have shown my Pump to others, who have bought force pumps at $10 each, and they all say they like yours the best and would rather have yours, *at the same price,* for washing wagons and windows, watering gardens and rinsing out bottles, jars and milk cans.

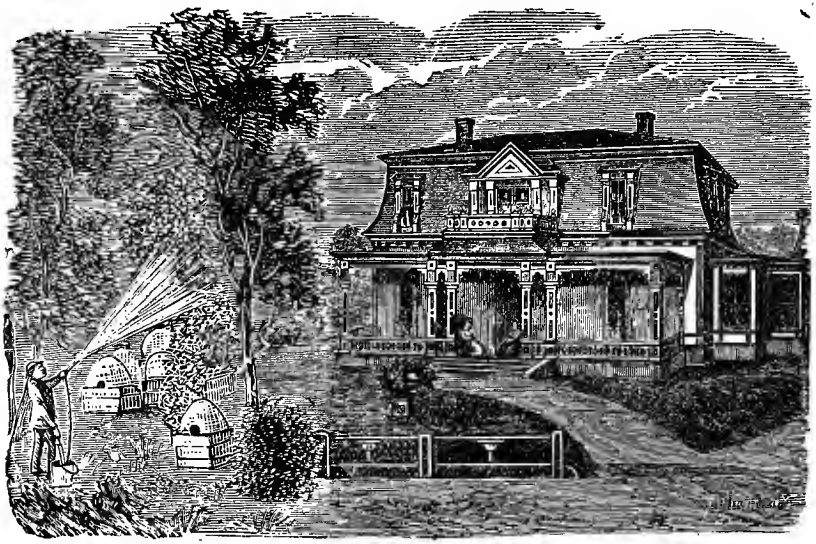
O. H. MUNSON.

(No. 249.)

ROSCOE, Ill.

I have been very successful the past year. On three different trips I sold the entire lot I started with, without missing a single man from first to last pump. There has been several days I have sold to every house without a miss. I find no trouble to sell the pumps. They are the best-selling article I ever saw. I average selling from 3 to 8 Pumps per day.

A. H. YOUNG.



Controlling Bees While Swarming and Making Them Seek the Hive.

(No. 12.)

Examined by a Master Mechanic.

LAKEWOOD, N. J.

Please ship immediately sixteen Combination Force Pumps. These are all sold. I went out and sold twelve in about eight hours the other day. Will soon be through with my strawberries and will then go to work with a will and will send a large order. The pump I find is the "boss" for controlling bees, as well as for sudden fires; also for throwing soap-suds and other alkalies upon large trees which cannot be reached by the Exterminator nozzle. I had it examined by an old master mechanic, and he was so well pleased with its construction that he ordered one. No well-regulated family can afford to be without one or more about the premises. WILLIAM CADY, Jr.

(No. 184.)

WINCHESTER, Ind.

Inclosed find money for five (5) Combination Pumps, result of about three hours' work. After receiving sample I came here from Greenville, Ohio, to visit my brother and brought sample along, just to try it. Send pumps here to J. T. CHENOWETH.

(No. 3.)

Couldn't Be Bought for $10.

ALBURGH CENTRE, Vt.

It is just the article I have long wanted. Am very much pleased with it for the short time I have had it. It came just in time for use. The only objection that could be made to it would be made by a potato-bug. It works well and will do all that it is recommended to do—and it is worth all you ask for it. Mine couldn't be bought for $10 if I could not get another. For washing wagons and windows and for the garden they cannot be excelled. The best of all is, my wife is very much pleased with it.

WILLIAM BRAYTON, P. M.

(No. 133.)

SORRENTO, Fla.

Mr. P. C. LEWIS: Your Exterminator received and works well. I use it for exterminating scale-bugs on the orange tree. Orange-growers are in need of a good instrument to throw a liquid decoction upon the tree, and your Syringe appears to answer the purpose, and to clean the buds of small pineapple plants of sand. Small plants just set out and not mulched, when it rains become filled with sand and will not grow until washed out. Yours respectfully, H. B. PAXTON.

I Have the Best Spray Nozzle in the World for Syringing Fruit Trees, Vines, etc.

(No. 120.)

Very Much Pleased with It. Perfectly Satisfied. Good for Grape Vines.

KARNS CITY, Butler Co., Pa.

I am very much pleased with your Combination Force Pump. Have used it for throwing cool water upon the roof of our house upon very warm evenings, in order to make the house more pleasant during the night. The sprinkler is No. 1. We used it with good effect on our grape-vines to destroy bugs and insects. It is all you claim for it and even more. Yours, etc., D. C. McLAUGHLIN.

(No. 172.)

DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Your letter of February 15th is received. My report will not be out for several weeks to come. I shall take pleasure in recommending your pumps as working well, and as one of the simplest and cheapest now manufactured. I expect to illustrate and describe your pump and to favor you with a copy of the report. Yours truly,

C. V. RILEY, Entomologist.

(No. 134.)

The King of Hand Pumps.

LAKEWOOD, N. J.

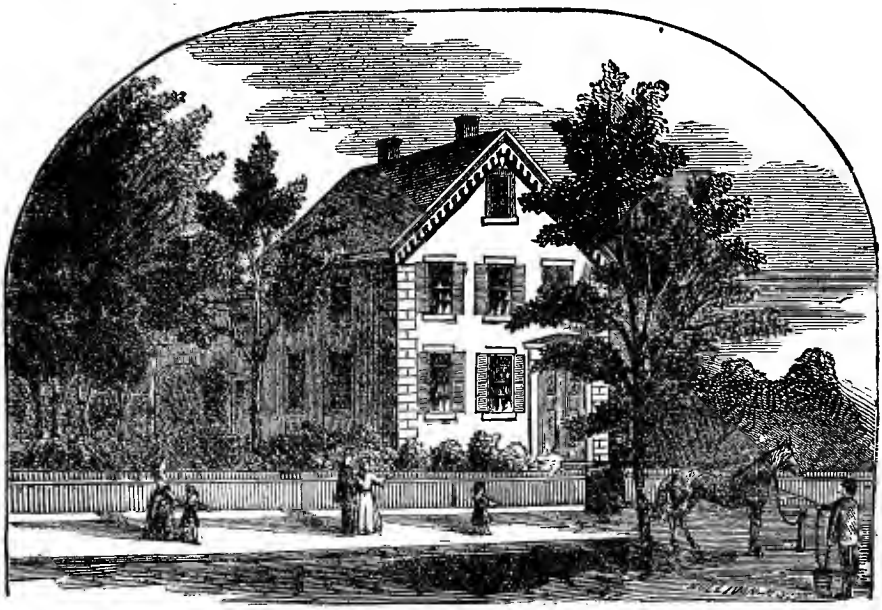
Having used Lewis's Combination Pump on my place, I can say that I consider it a very useful article as an ever-ready fire-extinguisher; also for other purposes about a farm too numerous to mention. In short, it will do all you claim for it, and its simplicity recommends it to all as being the king of all hand pumps. You may safely challenge the world. S. F. KEABLES.

(No. 122.)

GREENVILLE, N. Y.

MR. P. C. LEWIS: The undersigned have each in use one of your Combination Force Pumps, which at once combines a fire-extinguisher, carriage and window-washer, potato-bug exterminator, injector and garden-irrigator, and has never been equaled. For cleaning out old water-pipes it is just the thing; and we have no doubt that in the near future it will come into universal use.

HENRY T. BOTSFORD,
M. P. BLENIS,
WM. SMITH.



(No. 28.)

For Shampooing Horses in Summer.

BETHLEHEM, Conn.

I received your pump all right. I tried it in every conceivable way and found it all you claimed for it, and even more. Could throw a stream of water over the ridge of the house and hit any place I wished; so it is invaluable in time of fire. I find it a good thing to clean or shampoo a horse in the Summer-time, as they will stand the heat better and not sweat as much. It is valuable in every case. C. BLOSS.

(No. 302.)

BIG SPRINGS, O.

P. C. LEWIS: I have used your Combination Pump for three years for all purposes, and money could not buy it if I couldn't get another. Three years ago February I saved my house by its use, and now again on the 25th of August our little town was for the third time alarmed by the cry of "Fire!" from the same building (evidently the work of an incendiary). I brought my pump to bear on the flames, but there being coal oil in the garret, could not save it but kept the flames in check so that they saved all the dry goods, and also saved a new building just finished as a wagon and blacksmith shop, with five new buggies. Two or three more of the pumps would have saved the building that burned. Please send me seven pumps, for which I inclose cash. I had applications for five yesterday. Send by express to Rushsylvania, Ohio. I send you the names of four persons who will testify to the truth of the statement above: David P. Kerr, merchant; Barnard Cox; Geo. Yarwood, timber-dealer; E. Muirle, farmer.

Respectfully yours, B. RICKEY.

(No. 112.)

It Works Splendidly.

NEW ENGLAND VILLAGE, Mass.

I received my pump in good shape. It works splendidly and is good for many uses. Would recommend it to farmers and others. It is not expensive, and is useful many times. ALBERT GLEASON.

(No. 129.)

NORCROSS, Ga.

Pump received, and I must say I never bought anything that so fully realized its promises. M. I. NISBET.

From a Letter to American Agriculturist.

ANALOMINK, Monroe Co., Pa.

In your last I noticed an advertisement of Lewis's Combination Force Pump. I ordered one, and I must say I was *never* so much pleased with anything I bought as I am with this exceedingly useful yet simple machine. If I could not get another I would not part with it for *five times* its cost. R. F. SCHWARZ.

(No. 131.)

DEER LODGE, Montana, Aug. 12, 1880.

The Combination Force Pump arrived safely. I am very much pleased with it. It is all you claim for it, and more too. It is No. 1 for washing carriages, etc. Would not be without one in the house. Expect soon to send you an order for a few dozen.
GEORGE COCKRELL.

(No. 110.)

LONG PLAIN, Mass.

I received your pump all right and like it very much. Find inclosed cash for one dozen. Inform me on what terms I can have the counties of Bristol and Plymouth, Mass., for the coming season. G. L. BENNETT.

(No. 171.)

SOUTHAMPTON, Mass.

The Combination I ordered of you is received, and I am well pleased with it. Think it is the best of four different kinds I have used. E. H. BRONSON.

(No. 33.)

Orders Four Dozen at Once. Has Sold Twenty.

SALEM, Oregon.

The sample pump sent me came to hand last week in good order. The pump is all that you claim for it, and is a cheap, beautiful and practical force pump. No household, shop or mill can afford to be without one. Have orders for twenty already. We inclose cash for four dozen. A. PRESCOTT.

(No. 300.)

BALTIMORE, Md.

P. C. LEWIS: Your machine is a good one. I used it all last Summer, and hope to test it on my large orchard this Summer. ALEX. J. WEDDERBURN,
Editor of National Farm and Fireside.

(No. 298.)

HYDE PARK, Pa.

MR. LEWIS: I saved my greenhouse from being destroyed by fire the same day that the pump arrived. It caught fire that morning, and if it had not been for the pump I should have lost all. REV. M. PARKS.

(No. 236.)

DELTON, Wis.

P. C. LEWIS: Pump received. I have shown it to the people here, and they like it better than any pump they ever saw. There was an agent through here for another kind of pump, but did not sell many, as I had shown my pump, and those who wanted, all wanted your pump. Are the counties of Sauk and Columbia disposed of? If they are, let me know who the agents are, and I will tell them, as they can sell quite a number here in this town. Yours, F. L. ADAMS.

(No. 245,)

WAUSAU, Wis.

P. C. LEWIS: I have been selling your pumps for Adams & Clifford, your agents for Northern Wisconsin. They sell well. I average selling six pumps per day, etc., etc.
T. H. LYNON.

We have very many more testimonials, but space prevents our giving them. Remember that these testimonials are unsolicited, which, from their unqualified praise, speaks volumes for the Pump.

Lewis's Improved Potato-Bug Exterminator

And Agricultural Syringe.

The efforts that have been put forth in the last ten or twelve years, among inventors and farmers, to invent a machine or apparatus that would exterminate the potato-bug or effectually check the ravages of each succeeding generation of the pest, have in almost every case proved failures, until farmers have become shy in accepting any new cures or preventives, and have, generally speaking, settled back on the old back-aching watering-pot or a pail and whisk broom, using a solution of Paris Green or London Purple and water, it having become an established fact that London Purple and Paris Green are the only sure remedies, and mixing with water the only safe way of applying them. Hitherto, in using it in water, the process has been slow and laborious, necessitating the carrying of large quantities of water and the wasting of a good share of the mixture, for the lack of a proper instrument for applying it. Now that lack has been fully supplied in Lewis's Improved Potato-Bug Exterminator, an instrument for the mixing and applying of London Purple or Paris Green with water in right quantities, the quantity being regulated, almost to a drop, by the operator. The Exterminator is simple in its construction, can be worked by a boy ten years old with ease, convenient to handle, weighing only 1½ lbs. Proportion, one rounded teaspoonful of best Paris Green or one tablespoonful of London Purple to two gallons of water. The mixing is thoroughly done in a moment. A light tap on the handle discharges from 3000 to 5000 fine drops on each hill, and one pint of the mixture will do from thirty to forty hills. Its advantages over all others:

1. *Its Cheapness.*—That an instrument of this kind can be retailed at $1.25 each is certainly a wonder to most people; or one of polished brass for $1.75, while other brass springes of about half the size of this cost from $3 to $6 each, and none of them can do the work of this one.

2, *Its Economical Use of Material.*—From one-half to three-fourths of a pound of Paris Green or from one to one and a half pounds of London Purple will give an acre three separate dressings, every drop being utilized. The force of the stroke drives the mixture into the top of the leaf, and nothing but a severe rain-storm will remove it, while with the watering-pot it runs on in streams and *runs off in streams.*

3. *In Quickness of Application.*—A smart man can do four to six acres a day *thoroughly.* (See directions for use.)

4. The saving of carrying three-fourths of the water over the old way, which is no small item, especially in a dry time, when water has to be carried from one-fourth to one-half a mile, and for perhaps five to thirty acres of potatoes.

5. *Its Adaptability to Various Other Uses.*—For syringing fruit or ornamental trees, shrubs or bushes it stands unrivaled, as the spray is so fine that it touches every portion of whatever is operated on, with the least possible quantity of whatever solution is used. Many use the Exterminator to syringe the inside of hen-houses and for throwing spray upon bees while swarming, to make them seek the hive. It is one of the finest things imaginable for sprinkling flowers, using it as you would on potatoes, with clear water; or for sprinkling floors, as it wets the floor down just enough to sweep up nicely and have no dust.

It is the Only Potato-Bug Exterminator that Stands the Test.

The Exterminator is 26 inches long by 1⅞ inches in diameter. They are made of mandrel-drawn brass and zinc tubing, and consequently cannot rust.

The piston is fitted with Lewis's Patent Expansion Valve, which holds the liquid at any point in the tube, except on pressure of the handle, when it discharges the liquid on each hill, "without waste and just where it is wanted."

They are recommended by leading Entomologists, Agriculturists and Practical Farmers throughout the country; many would not take $10 for theirs if they could not get another. The directions given in this Catalogue are on each Exterminator. Read the testimonials following:

TESTIMONIALS.

(No 35.)

From The Cultivator and Country Gentleman.

It is the most effective, as it is also the cheapest, contrivance of the kind we have ever seen. The tube is of brass, with a piston-valve of rubber which retains the contents except on pressure of the handle, so that as the operator walks along the row a slight tap on the handle discharges the liquid on each hill, without waste and just where it is wanted. And we cannot see why, for sprinkling trees or the interior of greenhouses, it should not be equally good.

(No. 36.)

Shall Save Several Times its Cost This Season.

GREELEY, Col.

Your Exterminator, sent the 22d ult., came in good order, and proves to be all you claim for it. Am satisfied we shall save several times its cost this season on twenty acres of potatoes, in amount of poison used and time in putting it on. One of my neighbors (Mr. Fullerton) saw it work a little while, and took your address and sent for one. You have doubtless got the order before this. O. H. GALLUP.

(No. 137.)

Letter Referred to Above.

Enclosed you will find P.-O. order for $1.25. Please forward immediately one of your Bug Exterminators, the same as you sent Mr. O. H. Gallup, which gives good satisfaction. I. S. FULLERTON, Box 267, Greeley, Col.

(No. 18.)

SORRENTO, Fla.

Your Exterminator is just the thing to syringe orange trees covered with the scale-bug. With it one can throw any kind of solution all over and into the tree attacked.

C. G. ADAMS

(No. 296.)

UNIONDALE, Pa.

I went out and sold 50 Exterminators in one half-day. They all want them at once. I have also sold 4 dozen at wholesale, and have names for 5 of your Fire Pumps. They sell good. A. J. BURDICK.

(No. 58.)

From Prof. A. J. Cook, Michigan State Entomologist and President Michigan State Agricultural Association.

I have found your Syringe a valuable aid in the work of insect-destruction, and have recommended it highly to the farmers of our State, in a lecture given at the large Institutes of the past Winter. The lecture will appear in the next report of our Board of Agriculture. I showed in my lecture how to work the Exterminator.

(No. 52.)

People are Well Pleased with the Manner in which the Exterminator Does the Work

West Troy, Me.

I received Exterminator all right. I went out awhile yesterday, and people are well pleased with the manner in which the instrument does the business. Enclosed please find money-order for fifteen zinc-tube Exterminators. Fill this order just as soon as you receive this, and oblige C. O. GERRISH.

(No. 284.)

Lake Como, Wayne Co., Pa.

The Exterminator works nicely A. K. STARBIRD.

(No. 53.)

Would Not Take $5 for His Exterminator.

Catskill, N. Y.

Would not take $5 for mine if I could not get another, for syringing fruit trees infested with codling moth or lice. J. R. CLOW, Nurseryman.

(No. 289.)

Greeley, Col.

I have read your advertisement in The Fruit Recorder, and also used one of your Potato-Bug Exterminators, and know them to be good. Enclosed please find cash for more Exterminators. GEO. W. BUELL.

(No. 43.)

Wouldn't Take $10 for It if He Couldn't Get Another.

Franklin, Mass.

I received the brass Exterminators all right. I have not used mine yet, but bugs are getting thick and I shall have to soon. When I ordered the two, one was for a neighbor. He has used his, and he told me he would not take $5 for it—wouldn't take $10 if he could not get another. Yours, etc., N. M. FISHER.

(No. 154.)

Franklinville, N. J.

I have been using your otato-Bug Exterminator this week, and would say it "can't be beat." I would like to have the agency for Cumberland, Salem and Gloucester counties, if they are not taken. Please send terms to agents to me.

JAMES L. LEONARD.

(No. 86.)

South Portsmouth, R. I.

Your Syringe received, and gives satisfaction. Think it will prove very useful.

ELBERT A. SISSON.

(No. 158.)

Went Over Six Acres in One and a Half Days.

South Lincoln, Mass.

I went over six acres of potatoes with one of your Exterminators in one and a half days, and did not have any bugs to trouble me afterwards—had a first-class piece of potatoes. I find them to be a perfect success over anything I have ever tried.

EDWIN CHARLES LEWIS.

(No. 341.)

Sorrento, Fla.

The Syringe is just the thing for syringing orange trees. E. G. ADAMS.

(No. 39.)

From J. T. Lovet, Editor Orchard and Garden, Vice-President of the American Nurserymen's Association, Florist and Seedsman, Little Silver, N. J.

LEWIS'S SYRINGE.—I have found it a superior and durable Syringe for applying compounds in solution, for the destruction of all sorts of insects, such as the currant-worm, canker-worm, codling-moth, potato-bug, army-worm, lice on trees and shrubs, etc. It is also an excellent greenhouse Syringe. Its points of merit are: 1, Cheapness; 2, Economy of material (it wastes none at all); 3, Quickness of application; 4, Ease of application (weighing but 1½ lbs., a boy of ten years can work it). It is so simple that it cannot get out of order, and on this account only could it be sold at the price charged.

(No. 40.)

Best-Selling Thing He Ever Sold.

BROWNFIELD, Me.

Will you please send me five dozen Potato-Bug Exterminators? I sold 19 yesterday. Best-selling thing I ever sold. A. C. PERKINS.

(Mr. Perkins's orders amounted to over $240 in two weeks.)

(No. 318.)

They Sell Like Hot Cakes.

GLENVILLE, Ohio.

They sell like hot cakes. I sold 43 in eight hours. Farmers who hear about them come three and four miles after them, and sometimes buy half a dozen for their neighbors. ROBERT FOSTER.

(No. 142.)

PITTSFIELD, Mass.

Enclosed find order for one dozen Potato-Bug Exterminators. I think they will sell well here. It is a good Syringe to put soap-suds on currant-bushes and flowers. Please ship at once by express. H. H. LUCAS.

(No. 319.)

GREENWOOD, Del.

Exterminators received all right. I never saw anything so complete for the business. I have been showing it to the people around here, and they all think it complete. Enclosed find cash for one dozen. Please do not delay one moment in filling this order. E. J. SMULLIN.

(No. 145.)

A Good Thing.

DERBY, N. Y.

I received the Exterminator, and think it a good thing. Thanks for promptness. J. E. JUDSON.

(No. 46.)

The Exterminator Does the Work Quicker and More Effectually Than Any Other Method I Have Ever Tried.

STOCKBRIDGE, Mass.

The Potato-Bug Exterminator purchased of you was duly received. I have used the Exterminator to apply Paris Green to potatoes, and it does the work more effectually than anything I have ever seen, using less time and poison than any other method I have ever tried. The greatest objection to using Paris Green in liquid form is a tendency to settle at the bottom, thereby causing one to apply it too weak at first and too strong toward the last; but the Exterminator is such a rapid and perfect mixer that there is no necessity for putting it on unevenly with that. Yours, etc., O. H. MUNSON.

(No. 344.)

CALLICOON DEPOT, Sullivan Co., N. Y.

Mr. P. C. Lewis, Catskill, N. Y.:

DEAR SIR: Enclosed find $1.15 for your improved Potato-Bug Exterminator. Will you please send it at once, as I want to use it immediately. I had one, but it has been damaged so that it cannot be used any longer. I would not be without one if they cost $5 apiece. Your early attention will greatly oblige

Yours, etc., W. H. DEMOREST.

(No. 193.)

From Peter Henderson.

Your Agricultural Syringe is the best thing I have yet seen for its price. It not only answers well for throwing on Paris Green and other compounds in solution, but it is an excellent greenhouse Syringe.

(No. 55.)

PATCHOGUE, L. I.

I received the Exterminator, and am very much pleased with it.

C. H. TERRELL.

(No. 148.)

Entire Satisfaction.

ASHLAND, N. Y.

Have used your Exterminator with entire satisfaction the past season.

Respectfully yours, O. B. HITCHCOCK.

(No. 331.)

LEVERETT, Mass.

P. C. LEWIS: The Exterminator received all right. It works to a charm.

S. K. FIELD.

(No. 48.)

It Proves Satisfactory.

BANE PLAINS, Mass.

The Potato-Bug Exterminator received, and like it.

Respectfully, WM. ROBINSON.

(No. 160.)

LAFAYETTE, Ind.

Exterminator came this morning. I have used it on an acre of potatoes. Some of my neighbors want one; therefore, I send draft for one dozen. Send at once.

C. H. JENNE.

(No. 312.)

HARLEM, O.

Received Bug Exterminator, also your postal. I will take general agency of my county, which is Delaware. I think I can sell them. I would not take five dollars for mine if I could not get another. JAMES WELCH.

(No. 111.)

Extract from a Letter Sent to Me by The Tribune and Farmer of Philadelphia, Pa.

WALWORTH, Wis.

Editor Tribune and Farmer, Philadelphia, Pa.:

Have been looking for remedy for cabbage-worms and potato-bugs, from T. and F. It came in last issue; but, instead of the sprinkle-pot, use P. C. Lewis's (Catskill, N. Y.) Potato-Bug Exterminator, worth half a dozen pots. Cheap and most economical. Will say it is the most desirable and reliable I have ever known.

Yours, etc., E. B. COON.

(No. 321.)

SORRENTO, Fla.

P. C. LEWIS: Your Exterminator received, and works well. I use it for exterminating scale-bugs on orange trees. Orange-growers are in need of a good instrument to throw liquid decoctions upon the trees, and your Syringe appears to answer the purpose; also to clear the buds of young pineapple plants of sand. Small plants just set out, and not mulched, when it rains become filled with sand and will not grow until washed out.

Yours, H. B. PAXTON.

(No. 141.)

Best We Have Ever Seen.

CARVER, Mass.

The Combination Force Pump and Potato-Bug Exterminator received, and has proved satisfactory. We think the Exterminator the best thing we have ever seen for putting on Paris Green. Yours, etc., J. A. VAUGHAN & CO.

☞ *The following Label is attached to each Exterminator:*

LEWIS'S IMPROVED

Potato-Bug Exterminator

AND AGRICULTURAL SYRINGE.

Patented January 15, 1878, and March 11, 1879.

Manufactured by P. C. LEWIS, Corner of North and High Streets, Catskill, N. Y.

PRICE, $

Remove Plunger with a Twist. Follow Directions Carefully.

DIRECTIONS:

For Potatoes.—Use one tablespoonful of London Purple or one teaspoonful of best Paris Green to two gallons of water free from sediment. The London Purple will dissolve with thorough mixing; the Paris Green will settle at the bottom of the vessel in a lump. To mix, insert the "Exterminator," holding the rose about three inches from the bottom and directly over the lump, draw full and eject with force; repeat as often as necessary to keep well mixed. Have two pails of the mixture, and place thirty or forty hills apart on the same row. As you pass each hill strike the plunger a light, quick blow, driving it about half an inch. When you reach the other pail, draw full and return. When you have done four to six rows, set your pails over. When the vines are small, after drawing the "Exterminator" full, grasp it near the middle with your right hand, raise it even with your shoulder, then with a quick drop and jerk over each hill it will do the work equally well and will not cover half the space as when operated by a blow on the handle. If the weight of water causes the plunger to draw down and leak, place the thumb of the hand with which you hold the "Exterminator" against the rod above chuck. To oil, *insert plunger and fill upper cup of valve with oil.* This will oil permanently, and only use as lubrication requires. *Use Lard Oil. Remove the plunger when not in use, to prevent the valve from becoming gummed and adhering to the tube, and clean the valve.*

For Syringing Fruit Trees.—Use one and a half teaspoonfuls of Paris Green, or one and a half tablespoonfuls of London Purple (the latter is preferable), to two gallons of water, and from one to one and a half gallons per tree, according to size, etc. The showering should be done soon after blossoming. In using the "Exterminator" in this way, oil edges of valve thoroughly when it works hard. Remove plunger and clean valve when not in use. Adapted also to throwing whale-oil soap, liquid tobacco, etc.

OPINIONS OF THE PRESS.

From The American Agriculturist, New York.

A few years ago we knew not the potato-bug, and the makers of hand water-engines of all kinds could make their squirts to clean carriages, wash windows, put out fires and do various other feats in hydraulics, without regard to bug-killing. Now a pump that does not provide for the potato is not complete. Such was our thought as we unpacked the parts of Lewis's Combination Force Pump. It must not be thought from this that the pump is complicated, as it requires but a single change to convert a regular force-pump, with its short hose, into a garden syringe; another slight change and there you are—a Paris-Greener or a London-Purpler—the potato-bugs are provided for and the combination is complete. The thing is a perfect arsenal of water-guns, each serviceable in its way and made for use rather than show.

From The New York Independent, New York.

Combination Force Pump.—An ingenious combination of machines is found in the Force Pump manufactured by P. C. Lewis of Catskill, N. Y., for which there is more room in the farm and garden than has yet been occupied by machines for like use. It supplies a farmer's needs in a hundred ways, and it is astonishing the many uses it can be put to. The machine is simple in construction, very stoutly made and not liable to get out of order, and the changes are made by simply substituting a different nozzle for the work required of it. As a Potato-Bug Exterminator, an Injector or a Force Pump it is all that is required. Its cost will be one of its best recommendations to the farmer.

From The Nebraska Farmer, Lincoln, Neb.

We have received the P. C. Lewis Combination Force Pump and the Potato-Bug Exterminator, advertised in The Farmer. Our experience justifies us in saying that we have found them in all respects what he claims for them. The Potato-Bug Exterminator is particularly valuable. By using Paris Green or London Purple there need be but little if any trouble with the insects that usually attack and destroy plants.

From The Cultivator and Country Gentleman, Albany, N. Y.

Force Pump and Syringe.—The claims set forth in the advertisement of Lewis's Combination Force Pump and Potato-Bug Exterminator may seem large, but from personal trial we do not think them to be overstated.

From The Farm and Fireside, Springfield, Ohio.

Save Your Potatoes.—One of the handiest things to have around the house that we know of is the Combination Force Pump and Insect or Potato-Bug Exterminator. It will prove invaluable when fires are just starting, as it will throw a stream with great force fifty or sixty feet; and it can be changed instantly so as to throw thousands of small drops of liquid insect-poison on plants, trees or shrubs. The Force Pump, which goes with each Bug Exterminator, is alone worth more than the price of both, and is the best and handiest pump we have ever seen for washing carriages, windows, etc. We have one in daily use at our house, and would not part with it for many times its cost. It is an article we can heartily recommend to both our city and country readers, and advise all to send for circulars and price-list to P. C. Lewis, Catskill, N. Y.

From The Iowa Farmer, Cedar Rapids, Iowa.

P. C. Lewis.—Our readers should not fail to notice the advertisement of this gentleman's Combination Force Pump. The advertisement and the illustrations therewith show better than we could explain just what it is. All we ask is for the reader to peruse it; we will only add that we have one in use in our garden and have thoroughly tried it for all the uses it is recommended for, and can but say it is *far more* than what the advertisement claims for it, and we would not do without it for three times its cost. We have made arrangements with Mr. Lewis whereby we can furnish them, express paid, from this office, on receipt of price. See advertisement for prices, etc.

From The Farm Journal, Philadelphia.

A very handy instrument, which every live farmer and fruit-grower ought to possess, is Lewis's Force Pump, advertised in this paper in July. For spraying suds or poison upon fruit trees and bushes, and for washing carriages, windows, etc., it is just the thing. A full descriptive circular can be obtained by writing to P. C. Lewis, Catskill, N. Y.

From The Rural New-Yorker, New York.

A HANDY AND EFFICIENT INSTRUMENT.—An excellent thing about a farm-house is an ordinary force pump; but still more desirable is one like the Lewis Combination Force Pump, made to meet all the requirements of the country homestead. Besides washing windows and carriages, extinguishing fires, watering the lawn or the flower-beds, and performing all the other duties of the common force pump, this unique contrivance can be promptly metamorphosed into a Paris-Green or London-Purple sprinkler, scattering sure death among the potato-beetles, or it can be used to spray hellebore on currant-bushes, or, in fact, to pour liquid death on noxious insects of all kinds on the farm or in the garden. Try it once, and you won't afterwards rest comfortably without one.

From The Wisconsin Tobacco Reporter, Egerton, Wisconsin.

The Lewis Combination Force Pump is one of the neatest and handiest contrivances we have ever seen, as its advantages are so varied and many. It can be utilized in extinguishing fires, watering tobacco-beds, washing buggies and windows, sprinkling lawns and flower-beds, besides a thousand and one other purposes which will suggest themselves to the reader, and is without an equal as regards portability and ease of operation. There is also an attachment for converting it into a Veterinary Syringe, and another one for distributing Paris Green upon potato-vines, which is a very ingenious and useful contrivance. The price, $6, is remarkably cheap for so effective a machine, and it should be in the hands of every farmer, tobacco-grower, gardener and stockman.

From The New England Farmer, Boston, Mass.

Lewis's Combination Force Pump is a simple and inexpensive article for the many uses to which it is applied. Especially for sprinkling poisonous solutions on plants it is unexcelled, as the valve retains the liquid until the operator is ready to discharge it just where it is needed and in exactly the required quantity. It can also be readily changed to a force pump for washing windows, carriages, etc.

From The Rural Nebraska, Omaha, Neb.

The editor of the horticultural department has used for years the Lewis Combination Force Pump and Insect Exterminator. They are both indispensable. The pump will throw water over a three-story house; is a valuable protection against fire. The garden syringe is useful in exterminating all noxious insects.

From The Agriculturist, Covington, Ky.

Lewis's Combination Force Pump is the most complete arrangement that has been invented for washing a buggy, the house windows, sprinkling the flowers and watering vegetables and grass lawns. It throws the water with great force either in a solid stream or spray, and is so easily worked that it is sport for the children to wash the mud from a carriage. This pump in three minutes can be converted into a Potato-Bug Exterminator, and Paris Green or London Purple can be easily and evenly applied to the vines, and the bugs destroyed. By mixing one heaping teaspoonful of London Purple or Paris Green with two gallons of water, one pint of this will exterminate the insects on 30 or 40 potato hills, and an acre can be gone over in a short time. We have tried the Lewis Pump and can commend it to the florist, gardener and farmer. For particulars, see advertisement in this paper.

From The Boston Journal of Commerce, Boston, Mass.

LEWIS'S COMBINATION FORCE PUMP.—This Combination Force Pump, introduced by Mr. P. C. Lewis of Catskill, N. Y., is one of the most useful and, when once put in service, one of the most indispensable implements to which the attention of progressive agriculturists has been called for a long time. The pump is exactly what is claimed for it—a "combination" of a most thorough and staple order.

From The Farmington (Maine) Chronicle.

The subscribers, having bought and used Lewis's Combination Force Pump, can heartily recommend it as doing all that is claimed for it as a fire-extinguisher, garden syringe, potato-bug exterminator, etc.; and for the above purposes we consider it unrivaled in convenience, efficiency and cheapness. G. Drake, postmaster; I. K. Russell, station agent; A. Hobbs & Son, hand-rake manufacturers; Benj. Lowell, carriage-maker, and C. D. Sewell, carriagemaker, West Farmington. O. P. Whittier, merchant, Farmington Falls. Morrison & Sewall, milkmen, and J. K. Lovejoy, carriagemaker, North Chesterfield, Me.

We would say to our readers that, from personal examination of the above-mentioned machines, we do not hesitate to indorse the foregoing statement and add our testimony to that of others in regard to this valuable combination.

From The American Agriculturist.

A COMBINATION FORCE PUMP.—Some handy contrivance for throwing water is almost a necessity upon a farm or other country place. We must use poison or have no potatoes, and this makes a syringe a necessity; besides this, the application of other poisons, the washing of windows and carriages, the watering of flower-beds and various other uses bring such a pump into frequent demand. Moreover, the having at hand such an implement in case of fire is a great satisfaction. Lewis's Combination Force Pump is readily adapted to meet all these uses, its changes are easily made, and its moderate price is not the least commendation.

From The Independent, New York.

DEATH TO POTATO-BUGS.—The offer made, on the opposite page, by Mr. P. C. Lewis of Catskill, N. Y., is in no wise like the exaggerated inducements that are generally put forth in advertisements; but it will repay our readers to read it carefully. The Combination Force Pump is an ingenious and simple machine, which can be used as a pump, a potato-bug exterminator and an injector, by very slight alterations.

From The Prairie Farmer, Chicago, Ill.

Lewis's Combination Force Pump is a most valuable implement for throwing water for all purposes, such as watering greenhouses and gardens, carriage-washing, etc. An attachment for spraying trees and plants, with bug-exterminator, is furnished with the pump and will be found useful by horticulturists, market gardeners and farmers for this work. This pump has been tested by thousands and found good. It is manufactured by P. C. Lewis, Catskill, N. Y.

From The Pennsylvania Farmer, Mercer, Pa.

We wish to call the attention of our readers to the "ad." of Lewis's Combination Force Pump and Potato-Bug Exterminator. We received one neatly packed and took it out to our farm, and after a fair trial in various ways, such as washing windows and buggies, watering plants or throwing water on the roof in case of fire, we think it is a success, and we expect equally as good results when we change it into a potato-bug exterminator.

. C. LEWIS: A few years ago, while editor of The Nebraska Farmer, we received in trade for advertising one of your Combination Force Pumps. It worked like a charm. As good a thing of the kind as I ever saw. I am now editor of The Rural Nebraska, and would like again to make the same kind of trade with you. The Rural is of very large circulation. I would like the Force Pump and Potato-Bug Exterminator both. If you will be pleased to make such an exchange, send the implements and copy for advertisement. Yours, ROBT. W. FURNAS, BROWNSVILLE, Neb., Feb. 20.

WESTERN HORTICULTURE AND FORESTRY.—The American Cattle Journal is publishing a series of valuable articles from the pen of ex-Governor Robt. W. Furnas, so prominently mentioned for Commissioner of Agriculture at Washington. Gov. Furnas has had twenty-five years of experience in the West as a practical farmer, as governor of Nebraska, as president of the State Horticultural Society, as a member of the Board of Agriculture, etc., and is now the editor of the Department of Horticulture, Forestry, etc., in The Rural Nebraska, Omaha.

The Lewis Combination Force Pump was recently offered as a premium to the subscribers of The Indiana Farmer, one of the best of agricultural papers. The following are clipped from its columns:

EDITORS INDIANA FARMER: I received the Lewis Combination Force Pump from P. C. Lewis, Catskill, N. Y., and am very well pleased with it. I had one of another make in use, but the Lewis Pump is by far the best, and I think every family should have one in their house. I can throw water on my house and barn very easily, and wash the windows and sprinkle the lawn or garden. I can recommend the Pump as doing all that is claimed by Mr. Lewis, and I thank him very kindly for the present.

H. BEMENDORFER, ELKHART Co., Ind.

EDITORS INDIANA FARMER: I received the premium awarded by The Farmer Co., one of P. C. Lewis's Combination Force Pumps, manufactured at Catskill, N. Y. I could not be better pleased. I consider it a very useful article as an ever-ready fire-extinguisher, also for washing windows. My boy, ten years old, can stand on the ground and throw a stream of water sufficient to wash the windows. I have not used it for washing buggies yet, but am satisfied it will do all that is claimed for it. In fact, its uses are innumerable.

G. S. DURHAM, PUTNAM Co., Ind.

M. GUELFF of Marquette, Mich., says: "I have received your Combined Force-Pump and am very well pleased with it."

J. V. GODDARD of Marlboro, Mass., writes: "I would not give a button on a hen-house door for a load of those tin pumps for my use. Your pump is the best I can find, and I can say I would not take ten dollars for it."

JOHN SMITH of Fond du Lac, Wis., writes: "I have received the Combination Force-Pump and am well pleased with it."

WM. H. STEPHENS of Grass Valley, Nevada Co., Cal., says: "The sample Combination Force-Pump came to hand all right. I find it to be all you represent it to be. It is the handsomest pump I ever saw. Enclosed find cash for three more."

H. C. KEARNEY, Franklinton, N. C., says: "Enclosed find check on State National Bank of Raleigh, N. C., for $171, in payment for 5 dozen Combination Force-Pumps, which you will please ship at once by freight, per Old Dominion Steamship Line to Franklinton, N. C. I received the dozen by express; have sold them out *and engaged* 21 *more yesterday.* I think I can have 1000 sold before Spring, and shall want more territory. I want Wake, Durham and Warren counties now."

J. S. JOINER of Franklinton, N. C., writes: "Please send me your catalogue and best terms to the trade. I saw your advmt. in The American Liveryman, and think I saw an agent of yours at the North Carolina State Fair a few weeks ago. The sheriff of the county bought one of the pumps at the fair, and I came near doing so. That night we had a big fire in our town, and but for the use of the Lewis Pump bought by the sheriff there would have been 8 or 10 other buildings burned that were not burned. Two buildings belonging to me were saved with their contents, several thousand dollars. Everybody ought to have them."

H. C. KEARNEY writes from Franklinton, N. C.: "Enclosed find cashier's check for $36 on New York City National Park Bank, for which please ship me a dozen Lewis's Combination Force-Pumps by express to Franklinton. I desire to secure the agency for Franklin, Granville, Vauce and Nash counties, and will have them thoroughly canvassed. We recently had a fire in town, and by the work of your pump I bought in Raleigh at the State Fair $10,000 worth of property was saved. I think I can sell 50 here. I will order a large lot in a few days by freight."

[Notice that these three letters above are from the same place and were all written within a few days of each other. Notice also that Mr. Kearney took orders for 21 *Pumps in one day.* If you have my price-list you can figure the profits.]

J. C. PALMER of No. 600 Lafayette avenue, St. Paul, Minn., writes: "Your letter was duly received, also my order of three Combination Force-Pumps in good shape. I stayed with a well-to-do farmer one day and helped him to kill bugs with the Exterminator. He said when I was showing him the pump, that it was only for children to play with and 'not for me, as I have got over 10 acres of potatoes.' I said to him, 'Well, I'll tell you what I will do: I'll stay here to-morrow and help you to poison the bugs, and if you then don't like it you need not take it and I will not charge you a cent for my work.' 'All right,' he said; 'I am sure I will beat you.' 'Well, we will find out to-morrow.' He had a pail and brush, and, of course, took two rows at a time. I had two pails, as by your direction, and took 27 rows. When I was through he had 12 rows and was half on the 14th. I took 27 more, and he found I had done twice as much as he had. At noon he asked me to let him take a machine, too, in the afternoon, and I let him have one. By night we had gone over about five acres together. I then sold him a pump, and I sold one to his neighbor for potato-bugs alone, on his recommendation. I have orders for 6 more, and will try to sell two dozen. I enclose cash for two dozen; please ship at once. Next year I will commence in May, with horse and buggy, and order more, as the demand is great for them."

HUGH ADAIR of Woodland, Iowa, says: "I received my Force-Pump Sept. 29 and am well pleased with it. Have just received orders for two more. If you have no agent in Decatur Co., I will take the agency, and Wayne Co., also."

ADAM GERNER of Donnellson, Montgomery Co., Ills., writes: "Send me one dozen pumps by express. These are mostly all sold. Every person I showed them to liked them very much. I went to see a man the other day who had just been taken in with the promissory note swindle. He was in the yard and halted me at the gate and said, 'Don't you come one step further, but get into the big road. No agents wanted in here.' I said I only wanted to show him my sample. 'I don't want to sell you anything: just show it to you.' He made no reply, but went and untied a big dog that wouldn't have left a grease-spot of me if he had caught me. I climbed the fence and from that into a cherry tree. The man let me roost there all of half an hour. I called him up finally and pledged myself not to ask him to buy of me if he would permit me to show him and the family the pump. The dog was taken away and I crawled down, picked up my sample and with a bucket of water went to washing the windows, and after that washed a wagon until it looked like a new one. When I got through I put up my pump and, true to my promise, was going off, when the old man said, 'Come, let us have a drink of cider; and the old woman has some good cake.' After this treat I departed. Two days later the farmer came 8 miles and ordered one of the pumps. He explained that he had signed a $5 order for a patent well-bucket and in a short time was informed by the Bank that there was a note for $50 to be paid right away, and that he then declared war on all agents."

The Rev. SAMUEL C. STUMP of Verdon, Neb., says: "I consider your pump of great value. It is all and even more than could be asked for the price."

D. M. CAMPBELL of London, Ont., says: "The Force-Pump I bought of you three years ago I find a most useful and I may say indispensable instrument, filling the bill in every particular for everything it is claimed to do. I saw another force-pump the other day; it is nothing when compared with yours. I would not give the one I bought of you for a dozen of the others. Send one dozen by Amer. Exp. and find P. O. order for same enclosed."

W. A. RANKIN, Bergholz, Jefferson Co., Ohio, says: "I received your pump and like it very much. I have shown it to some of the people here and they like it better than any pump they ever saw. Enclosed find cash for one dozen Combination Pumps, which please send to Salineville, Ohio. Please send promptly and oblige."

E. P. COTTER, Melrose, Fla., writes: "I have been taking orders for the pump the past four days and will say that I am much better pleased with the business than I thought I would be, and shall make a permanent business of it. I am satisfied that I can make more money at it than any agency I ever tried. I have now orders for 19 pumps and have not been over two miles from home. The pump is absolutely a success in an orange grove. Five of the 19 who bought were using —— Pump, which I believe is the most extensively used in the orange groves at present, but after a thorough test they decided it would be much cheaper to buy the Combination Pump, as it would do the work more thoroughly, easier and quicker. Please ship them as early as possible. Hope I will soon be able to order in larger lots."

LOWREY BROS. of Flora, Ill., say: "We sprayed 40 acres of orchard with the pump we bought of you. It does the work splendidly."

W. A. BROWN, Inspector of Michigan Fruit Exchange, Benton Harbor, Mich., writes "I am well pleased with the pump you sent me, and so are others in this vicinity who have used them for spraying apple trees for the destruction of the codling-moth and other insects injurious to fruits and flowers. I have recently taken first premiums for display of Berrien County fruits at Michigan State and district fairs. I find that in orchards where a solution of Paris Green was applied with your pump the fruit is nearly all perfect, while in orchards neglected it is very difficult to select perfect specimens. I believe your pump is invaluable to the farmer and fruit-grower, and better adapted to the many purposes for which it is recommended than any other hand-pump manufactured or invented."

TERMS TO AGENTS.

The universal testimony of agents handling these goods (Pumps and Exterminators) is that they are the best-selling articles now upon the market. They are proving perfect "bonanzas" for agents. Very many of our agents have given up other business to engage in this. We have large farmers who have rented their farms and made a business of selling these goods with splendid results. Our agents embrace every class, including doctors, lawyers, ministers, postmasters, farmers, merchants, etc., etc. These goods have the elements of success—something that is practical and cheap, and *universally needed.* They are the best and cheapest goods of the kind in the world. Other hand pumps cost from $8 to $12 each; we furnish *three machines,* pump included, made of polished brass, for $6. The cheapest agricultural syringe made and known to the trade (except ours) costs $3 at retail, made of unpolished brass; we furnish a polished brass one for $1.75 at retail that will do all that the other will, besides being the best Potato-Bug Exterminator in use, and still give about the same margin of profit to the dealer. You can convince *any* man that he is losing money just so long as he does his potatoes in any other way, both in material used and labor saved. No farmer who has an acre of potatoes can *afford* to do without the Exterminator.

Our agents make from $8 to $15 per day, with frequently a day in which they make a profit of from $10 to $30 in a single day's sales. (See agents' testimonials on pages 29 and 30.)

On page 31 we give a long list of our customers who have each ordered from $60 to $2000 worth of these goods in from *one to three weeks' time.* Remarks on the salableness of these goods are superfluous. They have been on the market but a short time, yet the sales amount to *tens of thousands,* and we are receiving orders from every State and Territory in the United States, also from Canada, England, New Zealand, Austria, Australia, etc. They meet with ready sale everywhere.

Our terms *are strictly* cash. This becomes necessary, as we are shipping to strangers all over the country and of course can have no immediate proof of their responsibility. We put the wholesale price at a slight advance on cost, and by so doing give the agent a per cent. of profit given by no other manufacturer of this class of goods in the world.

Our Responsibility.

As to whether we always do as we agree, we refer to any of the *parties mentioned in this Catalogue,* or to Tanners' National Bank, American Express Co., or Postmaster at Catskill, N. Y.

C. O. D.

If parties prefer, we will send goods C. O. D., upon receipt of 20 per cent. of order, as a guarantee of the good faith of the parties so ordering.

When Ordering in Large Lots.

To save our customers excessive charges on express shipments in large lots, we will on receipt of 20 per cent. send goods C. O. D. by freight, marked P. C. Lewis, the bill of lading for which, indorsed to your order and accompanied by a draft on you for the amount due, will be sent to your nearest bank for collection, upon payment of which you can secure the goods from railroad agent. No charge for cartage.

To Those Buying Single Machines

We would say, show it to your neighbors, take their orders for them, and, when you have from half a dozen to a dozen ordered, send on for them. It costs you nothing for the trial, and will put dollars in your pocket. If the first party asked does not buy one, try the next, until you have visited at least twenty-five. You will be surprised at the results.

How to Send Money.

The safest way to send money is by Postoffice Order, Registered Letter Express or Draft on New York. Be sure and write *name, town, county and State plainly*, and write your full address *each time*, as we receive so many letters that it is impossible for us to remember your address or to look up any previous letter you may have written in order to obtain it.

Exclusive Sale.

Where parties who have never canvassed for us wish exclusive sale in any particular territory, we will hold the territory for them until they can send for a sample or a small order and try their hand at selling the goods. If they succeed, then upon a small order and their promise to canvass the territory asked for we will give them the exclusive sale of these goods in said territory for that season, and will continue the agency as long as they will canvass the territory thereafter. When a party has thoroughly canvassed the territory assigned him, let him apply for more.

Wholesale Agents.

We will give you 10 per cent. in cash or in goods on all orders for our goods secured by you, or through you, for other parties at regular rates, and will secure to said parties the exclusive sale on same terms as above. Will also give you 10 per cent. on all orders received from such parties, at regular rates, to the close of the season, making a permanent business without work. By taking a little pains to get good, live agents in other towns or counties interested, you can in many cases pocket from $50 to $100 for your trouble. Our order book is always open to agents. They have also the agents secured to refer to as to the correctness of our report. Send for a sample machine, and a few hours' canvassing will satisfy you that there is money in it for you.

Promptness in Shipping.

We claim to ship goods within twenty-four hours of the receipt of order, and scarcely ever fail to do so. We carry a large stock of these

goods, and our facilities for manufacturing are such that it is almost an impossibility for orders to increase above our capacity for manufacturing.

Write Short Letters.

State what you want in as few words as possible. Be short and to the point. Our correspondence is *very large*, and we cannot give long letters the prompt attention we can short ones. Remember to sign your name and address *in full* to *each* letter. We sometimes receive letters not registered, with money inclosed and not a word from the writer. In such cases we have to wait until the party gets tired of waiting for his goods, and writes us to find out "*what is the matter.*" We then learn his address and ship the goods. Others forget to give their address. In case the postmark is plain we have to write and find out if the latter was mailed from their home office or not, before sending the goods. Other do not sign name, but give their address at top of letter. If they happen to remit by postoffice order we can get their name of the postmaster from the advice sent with the order; if they remit in any other form we have no other alternative but to wait until they get impatient and write to us again, as in the first case. We are constantly bothered in all of these ways. Correspondents are particularly requested to write their name and address *plainly*. Do not use any fancy or peculiar mode of signature. We receive some letters that would tax a "Philadelphia lawyer" to decipher who wrote them or where they came from.

The following are extracts from letters lately received from our agents who have happened in writing to mention, unsolicited, the number sold in a single day. We have agents who have done much better than anything here told, without doubt, as these are small orders mostly, while numbers of our agents buy from 50 to 100 Pumps at a time, and would naturally withhold the fact of making large sales from us. Our limited space prevents our giving the experience of many others who have done equally well.

LEWISTON, N. Y.

P. C. LEWIS: Ship eighteen Pumps at once. I have sold fourteen in the past two days. FRED. C. McCONKEY.

(Profit, over $40 in two days.)

COEYMANS, N. Y.

Have sold ten dozen Exterminators at wholesale and two dozen at retail in a single day. EDGAR POWELL.

(Profit, over $25.)

EDGERTON, Rock Co., Wis.

Please ship *at once* two dozen Pumps. I have taken orders for twenty-four of them in the past five days without going out of town. JOHN E. HYNES.

(Profit, $72 in five days.)

STOCKBRIDGE, MASS.

P. C. LEWIS: Please ship five dozen Exterminators and one dozen Pumps. I sold ten Exterminators and four Pumps yesterday. O. H. MUNSON.

ROSCOE, Ill.

P. C. LEWIS: Please ship at once by express two dozen Pumps. I average from three to eight per day. I have sold ten in a single day. I have sold by order and then delivered seventy-five in about three weeks. Have sold to farmers exclusively.

A. H. YOUNG.

(The above shows a profit of $30 on a single day's sale and a profit of $225 in three-weeks' steady work. Mr. Young has now rented his large farm and makes a business of selling my Pumps. He has sold about three hundred at retail within a short time.)

LAKEWOOD, N. J.

P. C. LEWIS: Please ship *immediately* sixteen Combination Pumps. These are all sold. I went out the other day and sold twelve in about eight hours, at retail.

WM. CADY.

(Profit on twelve Pumps, $36.

PETERBORO, N. H.

Make our order of last Saturday *seventy dozen brass Exterminators and thirty dozen zinc.* Sold four dozen from the Court House steps in one day, at retail.

JAQUITH & NAY

(Profit on day's sales at retail, $25.)

GLENVILLE, Ohio.

Express eight dozen Exterminators at once. I sold forty-three in eight hours. Farmers who hear of them come three or four miles after them, and sometimes buy half a dozen for their neighbors. ROBERT FOSTER.

(Profit on forty-three Exterminators, over $25.)

EPHRATAH, N. Y.

P. C. LEWIS: Force Pump received last night. *I sold two* before I left the post-office. ERVIN SMITH.

DECKERTOWN, N. J.

P. C. LEWIS: Please ship one dozen Pumps. I sold nine Pumps on Thursday after 4 o'clock P. M. L. H. DECKER.

(Profit, $27 in about three hours.)

KEELERSVILLE, Van Buren Co., Mich.

P. C. LEWIS: Your Exterminator is the best machine that I ever saw for destroying the bugs. I sold the two dozen that I bought of you in one day.

ISAAC S. ROSEVELT.

ROSCOE, Ill.

I have been very successful the past year. On three different trips I have sold the entire lot I started with, without missing a single man from first to last pump. There have been several days I have sold to every house stopped at, without a miss. I find no trouble to sell the pumps. They are the best-selling article I ever saw. I average selling from 3 to 8 per day. I have ordered in lots of 2 dozen and sold them in 4 to 5 days, averaging $50 to $75 per week profit. Yours truly, A. H. YOUNG.

WAUSAU, Wis.

P. C. LEWIS: I have been selling your pumps for Adams & Clifford, your agents for Northern Wisconsin. They sell well. I average selling six pumps per day, etc., etc.

T. H. LYNON.

(Showing an average profit of $24 per day.)

BAY CITY, Mich.

I sold eight of your Combination Pumps in four hours. W. S. EVANS.

(This shows a profit of $24 in four hours.)

FRANKLIN, Vt., June 6.

P. C. LEWIS: I have now canvassed nine days and have made $180. I sold five dozen pumps on about five square miles of farming country. Please ship three dozen pumps to Richford, Vt., *at once.* Respectfully yours, M. S. HUNGERFORD.

($180 made in nine days.)

MADISON, Wis., June 29.

We have one man working who sold 33 Pumps last week and 28 this week. Please ship us 12 dozen per week until further orders. ADAMS & CLIFFORD.

(Adams & Clifford's orders amounted to somewhere between 700 and 1000 Pumps for the season of 1882. The agent spoken of in above letter made a profit of $182 in two weeks. Comment is unnecessary.)

SALEM, Oregon.

P. C. LEWIS: The sample pump came to hand in good order. Have orders for 20 already. I inclose cash for four dozen. Pump is all that you claim for it, and is a cheap, beautiful and practical Force Pump. No household, shop or mill can afford to be without one. I find them eagerly sought after, and am satisfied that we can sell a large quantity of them in connection with our own pump. Send by express.

Yours respectfully, A. PRESCOTT.

OAK HALL, Va.

P. C. LEWIS: Pump received all right, and am *very much pleased with it.* Please send the inclosed order by express just as soon as possible. E. P. BEADLES.

The order spoken of above was for $72 worth of goods; all he had had up to this order was his sample. Also G. M. Tuttle of Beloit, Wis., who obtained a sample Pump of an agent, started out and, finding they sold rapidly, immediately sent a draft for $100, not even knowing the wholesale price, and said: "Send me one hundred dollars' worth of Pumps at your best cash rates at wholesale, etc." The greater portion of our agents have commenced in the same way. They obtain a sample and also terms to agents. They are convinced from the working of the machines that they *ought to sell;* and after a few hours' canvassing they find that they *will sell*—and that *rapidly.* They then, having taken orders for quite a number, send for a small lot, generally from one to three dozen. These orders soon increase in size as they become familiar with the machine and devote more time to it, until some of them order Pumps by the hundred and Exterminators as high in one case as *one hundred dozen per shipment.*

The parties mentioned below have each ordered from $50 to $2000 worth of my goods in from *one to three weeks' time.* Many of them are farmers who spent spare days in canvassing, and made in many cases from $8 to $25 in a single day. For want of space we can give the names of but a few of our many good customers:

W. A. Schmidt, Hannibal, Mo.
Geo. Blanchard & Brother, Portland, Me.
Joseph Hagenbuck, La Porte, Ind.
Lester Barnes, North Abbington, Mass.
B. K. Bliss & Sons, New York City.
Price & Knickerbocker, Albany, N. Y.
George M. Way, Hartford, Conn.
A. B. Cohn, 197 Water st., New York.
O. H. Munson, Stockbridge, Mass.
J. K. Sterling, East Warren, Vt.
William Cady, jr., Lakewood, N. J.
C. H. Oakes, West Farmington, Me.
A. H. Young, Roscoe, Ill.
C. F. Waldron, Welaka, Fla.
Carlo May, Putnam, Conn.
L. H. Decker, Deckertown, N. J.
H. R. Baker, Lowell, Mass.
G. M. Tuttle, Beloit, Wis.
William Prescott, New Boston, N. H.
J. B. Shannon, Philadelphia, Pa.
C. W. Bliss, West Fairlee, Vt.
G. L. Bennett, New Bedford, Mass.
James Breck & Sons, Boston, Mass.
O. T. Morrill, Stowe, Vt.
J. C. Kelly, Newport, N. H.
Elliott P. House, Colebrook, N. H.
L. M. Nickell, Coxsackie, N. Y.
John Adams, West Plattsburgh, N. Y.
G. B. Landon, Milton, Vt.
W. H. Cummings, Plantsville, Conn.
Jerome Taylor, Woodstock, Vt.
H. Longly, Shirley, Mass.
J. W. Cornell, Trenton, N. J.
H. J. Long, Reistertown, Md.
Horatio Howes, Chatham, Mass.
O. W. Grundstein, Worthington, Minn.
Charles L. Peck, Coopersville, Mich.
Clifford & Adams, Madison, Wis.
R. T. Howard, Coxsackie, N. Y.
J. E. Hynes, Egerton, Wis.
Marvin Baker, Lewiston, N. Y.
A. C. Perkins, Broomfield, Me.
George D. Stockwell, Bangor, Me.
Jaquith & Nay, Peterboro, N. H.
Charles Lee Murray, Marion, Iowa.
A. Prescott, Salem, Oregon.
Robert Foster, Glenville, Ohio.
E. B. Crofut & Co., Syracuse, N. Y.
G. B. Grey, North Anson, Me.
Edward Proctor, Spencer, Mass.
S. J. Long, Reistertown, Md.
Edgar Powell, Coeymans, N. Y.
James Campbell, Pasadena, Cal.
D. N. Della, Oakland, Cal.
Wiggins & Russ, Skowhegan, Me.
J. H. Stewart, St. George, Del.
George W. Spencer, Bradford, Vt.

And more than 100 others whose names we have not space for.

Parties in doubt are respectfully referred to any of the above. You can do *just as well* as they did.

These parties are from all parts of the United States, showing that the goods will sell anywhere.

Territory is being taken up *very fast.* If you wish territory reserved write *at once,* as we often receive two or three letters from the same town in the space of a day or two. Our motto in such cases is, "First come, first served."

Recipes for Exterminating Insect Pests.

For destroying insects the following recipes will be found excellent. I would advise those having a large amount of fruit trees to spray, to order the "Insect Spray Nozzle" with their Pump, as it throws a very fine spray and is very economical, and is the best spray nozzle *in the world.* I make a special nozzle for spraying trees (see page 3), which should be used for this work. Parties when ordering a Pump should specify if they wish this nozzle. For 50c. additional I will send an extra length of hose with the insect spray nozzle attached.

For Caterpillars.—Use soft soap and water. Proportions, one quart of soap to six or seven gallons of water. Apply with either the Combination Pump, using spray attachment or with syringe attachment or "Exterminator."

For Cabbage-Worms.—Add one pound of Whale-Oil Soap to six gallons of water. Apply with spray attachment to Pump or syringe attachment or "Exterminator."

Prof. A. J. Cook of Lansing, Mich., says that *Pyrithrum* is sure death to caterpillars and cabbage-worms when sprayed over them in liquid mixture.

For Potato-Bugs.—See directions on page 21.

Cotton-worms, cabbage-worms, etc., can be killed by 200 grains of *Pyrithrum* stirred up in two gallons of water. Apply with fine spray attachment to Combination Pump or with syringe attachment or "Exterminator."

For currant bushes, raspberry and gooseberry bushes, use pure White Hellebore, one ounce to two gallons of water. Apply as above.

For Scale Insects on Orange Trees, etc.—Use Concentrated Lye, one pound to one gallon of water, to spray trees in a dormant condition. It will not destroy the fruit buds. In May and June, when the trees are in full foliage, use one pound of Whale-Oil Soap and half a pound of Sulphur, mixed with two gallons of water. The lye to be used when the tree is dormant and to be supplemented by, *if needed,* the whale-oil and sulphur mixture in the Spring and Summer. These, if persistently and carefully attended to, will clean your orchards of the dreaded Scale insect.

Another recipe highly recommended is one pound of Whale-Oil Soap to five gallons of boiling water, let it cool, and to each gallon of the soap solution add one gill of kerosene and mix it thoroughly. Apply the wash to the body and branches of the tree with a brush, shower the leaves and foliage with spray attachment to Combination Pump or with syringe attachment. This is recommended as *sure death* to the Scale insect, but requires two or three thorough applications at intervals of three or four weeks.

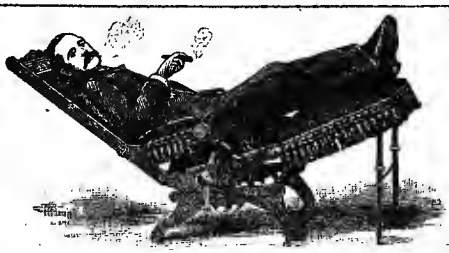
The solution should be frequently stirred when using. This is done by pumping back into the pail. This wash is highly recommended for almost any kind of plant attacked by scale, red spiders, aphides. The sooty appearance will soon slough off in scales upon getting rid of the insects

WE ALSO MANUFACTURE

"THE RIP VAN WINKLE RECLINING ROCKER."

Patented Sept. 6, 1887.

TRADE MARK

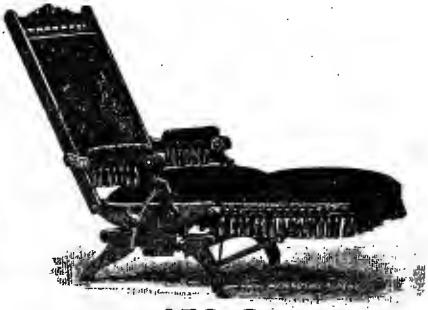


PATENTED.

Has 27 Combinations and Over 200 Changes of Position

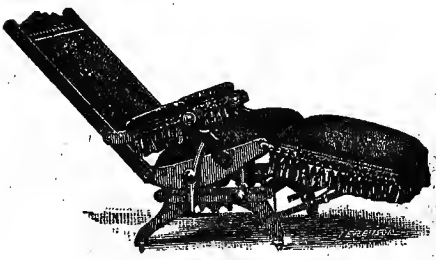
Any and All of the Combinations and Changes can be Made while Sitting in the Chair.

NO. 2.



NO. 3.

It is readily adjusted into a Platform Rocker, with Ottoman separate, as in cut No. 2. Or by folding up the legs to the Ottoman and unfolding the ratchet and attaching it to the Chair it makes a Reclining Rocking Chair, as shown in cut No. 3; in this position a person can sit in the Chair with his feet on the foot-rest and rock himself and it is impossible for a beholder to tell what makes him rock. As an Invalid's Chair, in position No. 3, you can recline the back by quarter-inches until you lie out straight, and without taking your weight from the back of the Chair in the least; and you can rock yourself just as well lying down as sitting up. It is the most perfect and easily-controlled Invalid's Chair in the world.



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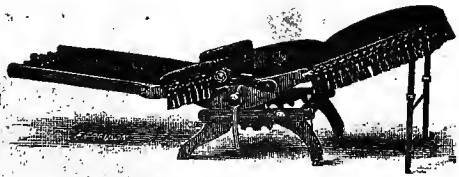

NO. 5.

You can lower the foot-rest, tilt the seat and recline the back, giving your body three different inclines, as shown in cut No. 4. You can readily adjust it into a couch, as shown in cut No. 5, or into the Smoker's Easy Chair No. 1, besides making over 20 other combinations.

Prices Range from $15 to $35, According to Finish and Upholstering.

Send for Illustrated Catalogue containing the Legend of Rip Van Winkle.